

**MATERIAL HANDLING SYSTEM AND METHOD**  
**FOR A MULTI-WORKPIECE PLASMA TREATMENT SYSTEM**

**ABSTRACT OF THE DISCLOSURE**

5 A plasma treatment system in which untreated workpieces are serially received one at a time on an infeed table but stored in parallel on the infeed table. The untreated workpieces are transferred simultaneously, in parallel, into a plasma treatment chamber. Thereafter, treated workpieces are transferred simultaneously, in parallel, out of the plasma treatment chamber onto an outfeed table; and the outfeed table serially discharges the treated workpieces one at a time from the outfeed table.